

Work Order ID 83137

83137

Page 1

Friday, April 13, 2012 10:10:23 AM

Item ID: D4007-3

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Support

Start Date: 4/13/2012

Start Qty: 6.00

6

Cust Item ID:

Required Date: 4/25/2012

Req'd Qty: 6.00

6

Customer:

Reference:

Run Start ***NR1***

Approvals:

Process Plan: P

Date: 12-04-13

Tooling:

Date:

Stop ***NR2***

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code Accept Reject Reject Insp.
Qty Qty Number Stamp

Draw Nbr

Revision Nbr

D4007

A

100

0.00

100

Purchasing

Purchasing

Memo

0.00

Issue P/O: 14714
Purchase part as per Dwg D4007
Possible Supplier: GFI
Material release note required

110

0.00

110

Packaging

Packaging

Receive & Inspect for Damage & Mat'l Certs

Memo

0.00

120

0.00

120

QC

Quality Control

QC6- Inspect dimensions to drawing

Memo

0.00

12-04-13

4/5/8 (6)

(6)

M/W 12-05-10

| W/O: | | | WORK ORDER CHANGES | | | | | |
|------|------|--|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | | |
| | | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
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| | | | | | | | | |

NOTE: Date & initial all entries

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Required Date: 4/25/2012

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6

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

130

HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

Memo

0.00

(6) 12-5-11

140

140

QC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

0.00

6X 12/05/11

150

150

Packaging

Packaging

Identify as per dwg & Stock Location: *ST 14/1A*

0.00

Memo

0.00

6X 12-5-11

| W/O: | | | WORK ORDER CHANGES | | | | | |
|------|------|--|--------------------|----|------|-----|-------------------------------------|--------------------------|
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NOTE: Date & initial all entries

Work Order ID 83137

83137

Page 3

Friday, April 13, 2012 10:10:24 AM

Item ID: D4007-3

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Support

Start Date: 4/13/2012

Start Qty: 6.00

6

Cust Item ID:

Required Date: 4/25/2012

Req'd Qty: 6.00

6

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Memo

0.00

Quality Control

12/5/14

UMF 12-05-14

| W/O: | | | WORK ORDER CHANGES | | | | | |
|------|------|--|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
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| | | | | | | | | | |

NOTE: Date & initial all entries

Picklist Print

Friday, April 13, 2012 10:10:28 AM

Page 1

Work Order ID: 83137

83137

Parent Item: D4007-3

D4007-3

Parent Item Name: Support

Start Date: 4/13/2012

Required Date: 4/25/2012

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP rev A 09.12.18 new Issue Prelim EC verified: DD IPP Rev:B
10.05.03 as per ECN10-562 DD verified by:EC

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|--|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|-------------------|----------------|--------|
| D4007-3P *D4007-3P* Support | | Purchased | No | | | 110 | Each | 0.0000 | 1 | 6 | | | |
| | | | | | | | | | | ** | <u>9/2/08 (6)</u> | | |

| W/O: | | | WORK ORDER CHANGES | | | | | |
|------|------|--|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | | |
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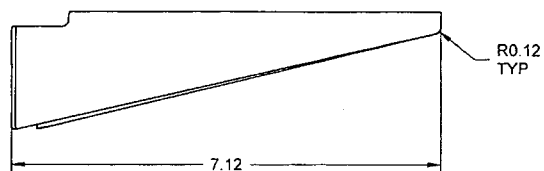
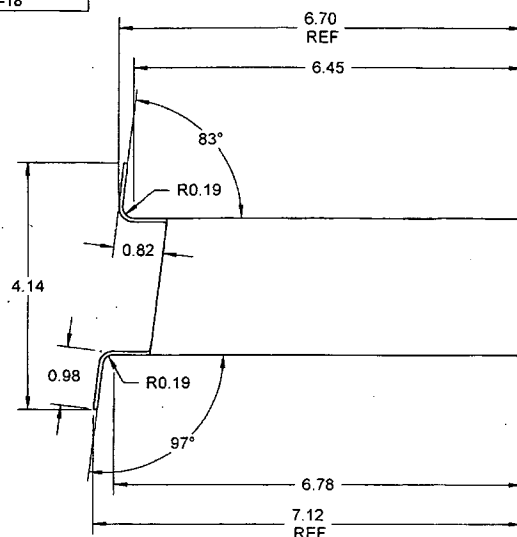
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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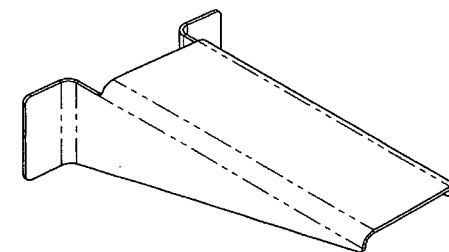
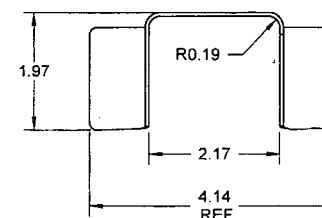
NOTE: Date & initial all entries

| DART AEROSPACE PART NUMBER | JOHN CAMERON AVIATION PART NUMBER |
|-------------------------------|--------------------------------------|
| D4007-3 | JCA-M47-2-18 |



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 88137

112-04-13



D4007-3 TOP SUPPORT BRACKET

RELEASED
R 2010-05-05
MP

NOTES:

- 1) MATERIAL: MADE FROM D4007-3F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4007-3" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.19 lbs

| | | | |
|------------|-----------|--|--------------|
| DESIGN | <i>JS</i> | DART AEROSPACE LTD | |
| DRAWN | <i>JS</i> | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | <i>JS</i> | DRAWING NO. | REV. A |
| MFG. APPR. | <i>JS</i> | D4007 | SHEET 3 OF 5 |
| APPROVED | <i>JS</i> | TITLE | SCALE |
| DE APPR. | <i>JS</i> | SUPPORT | NTS |
| DATE | 10.02.05 | <small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> | |

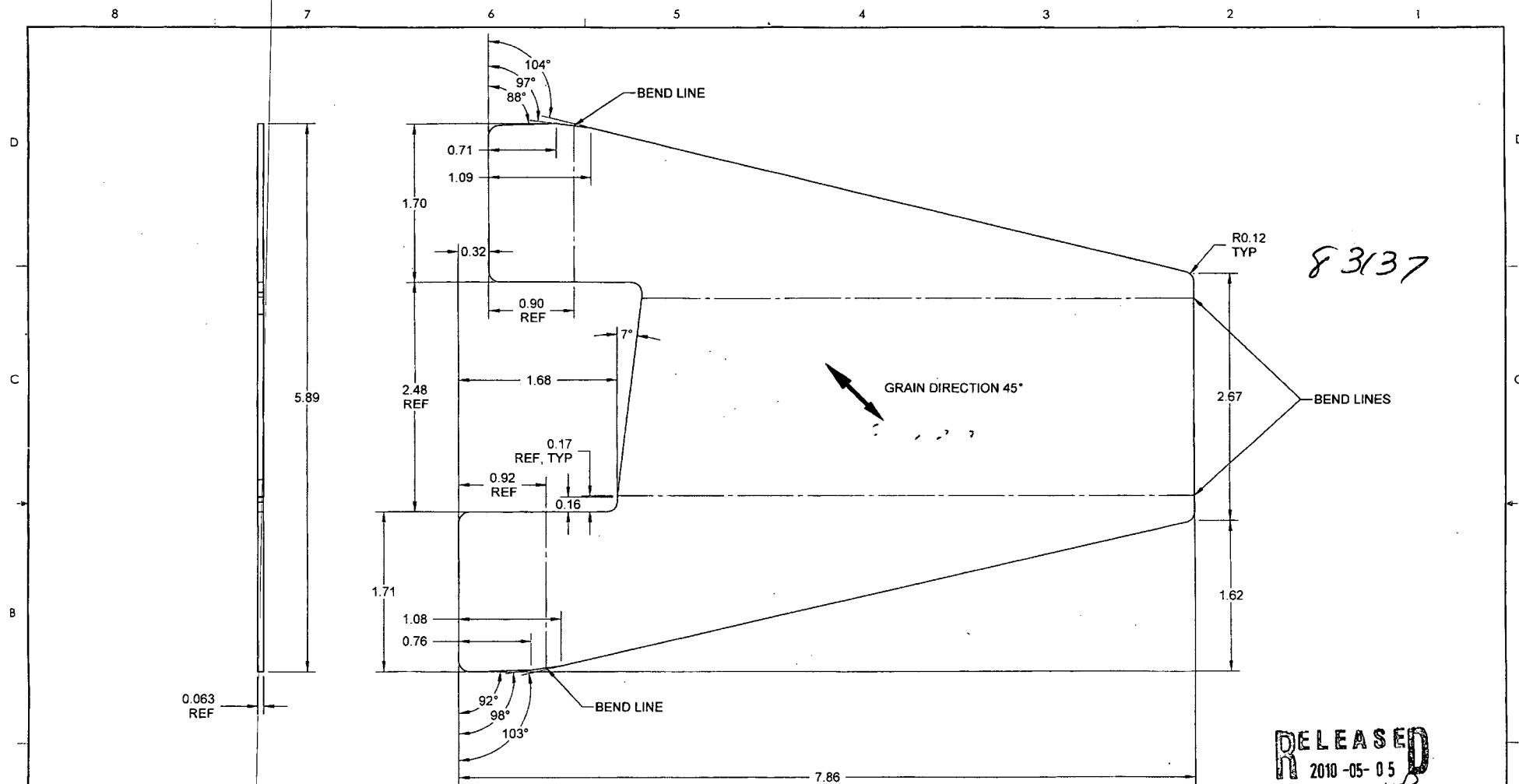
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



NOTE: Date & initial all entries



D4007-3F FLAT PATTERN

NOTES:

- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK
PER QQ-A-250/4 OR AMS-QQ-A-250/4
OR AMS 4037 OR ASTM B209
REF DART SPEC M2024T3S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.19 lbs

| | | | |
|--|---|--|--------------|
| DESIGN |  | DART AEROSPACE LTD | |
| DRAWN |  | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED |  | DRAWING NO. | REV. A |
| MFG. APPR. |  | D4007 | SHEET 4 OF 5 |
| APPROVED |  | TITLE | SCALE |
| DE APPR. |  | SUPPORT | NTS |
| DATE | 10.02.05 | COPYRIGHT © 2010 BY DART AEROSPACE LTD | |
| THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | | | |

| W/O: | | | WORK ORDER CHANGES | | | | | |
|------|------|--|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
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| | | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

NOTE: Date & initial all entries



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO16716

Purchase Order Date 4/13/2012

PO Print Date 4/13/2012

Page Number 1 of 1

Order From :

VC-GFI001

GFI

180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

Contact Name

Vendor Phone

514 630 4877

Vendor Fax

514 630 4849

Vendor Account Nbr

Buyer

Brigitte Golden

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAKED
CX 12/14/11

| Line Nbr | Reference Revision ID Vendor Part Number | Description/ Mfg ID | Req Date/ Taxable | Req Qty/ Unit of Measure | Ship Method | Unit Price | Extended Price |
|----------|--|------------------------|---------------------------------------|-----------------------------|-------------|------------|-------------------|
| 1 | D4007-3P | Support | 5/10/2012 Yes | 6.00 Each | | \$111.8682 | \$671.21 |
| | | Special Inst: | As per DWG: D4007 Rev: A B83137 | | | | |
| 2 | D4005-3P | Fwd Restaint Beam | 5/10/2012 Yes | 6.00 Each | | \$99.2780 | \$595.67 |
| | | Special Inst: | As per DWG: D4005 Rev: B B83136 | | | | |

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

PO Total:

\$1,266.88

Change Nbr: 1

Change Date: 4/13/2012

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

GFI est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.



BON DE LIVRAISON / SHIPPING MEMO

| DATE DE LIVRAISON / SHIPPING DATE | | | N° DE BON DE LIVRAISON / SHIPPING MEMO NO. | | PAGE |
|-----------------------------------|---------|---------|--|--|------|
| JR - DY | MO - MO | AN - YR | | | |
| 04 | 05 | 12 | 0487022 | | 1/1 |



VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

| CODE DE CLIENT / CUSTOMER CODE | N° DE CONTRAT / JOB NO. | VOTRE N° DE COMMANDE / YOUR PURCHASE ORDER NO. | EXPÉDIÉ PAR / SHIP VIA |
|--------------------------------|-------------------------|--|------------------------|
| DART GFI-0299 | 0248580 | PO16716 | |

| QUANTITÉ / QUANTITY | N° DE PIÈCE / PART NO. | DESCRIPTION |
|--|------------------------|---|
| 6 | D4007-3P | SUPPORT CERTIFICATE OF CONFORMANCE REQ |
| <p>MFG. JOB# <u>J0948580-001</u> QTY <u>6 pcs.</u></p> <p>DUE DATE: <u>10 May 2012</u></p> <p></p> | | |

EXPÉDITEUR / SHIPPER

N° DE BON DE LIVRAISON / SHIPPING MEMO NO.

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES DANS LES 30 JOURS SUIVANTS



CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

| | | | | | |
|---|--------------|------------------------------|-----------------|------------------------------|----------------|
| CERTIFICATE NO. <u>5</u> | | OUR JOB NO <u>J0248580</u> | | SHIPPING MEMO <u>0487022</u> | |
| ITEM | QUANTITY | PURCHASE ORDER | PART NUMBER | REV | NAME |
| <u>--</u> | <u>6 PCS</u> | <u>PO16716</u> | <u>D4007-3P</u> | | <u>SUPPORT</u> |
| MATERIAL | | SUPPLIED BY | | MAT. REL. NO. | |
| <u>.063 THK AL 2024-T3 (AMS-QQ-A-250/4)</u> | | <u>TW METALS / ALCOA INC</u> | | <u>452242</u> | |

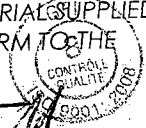
| PROCESS | PROCESSOR | RELEASE NOTE # |
|---|------------|----------------|
| 1 FIRST ARTICLE INSPECTION REPORT ON FILE | GFI | N/A |
| 2 REF. GFI MANUFACTURING JOB NUMBER J0248580-001 (6 PCS) | | |
| 3 MATERIAL CERTIFICATION ATTACHED | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 07 MAY 2012

G.F.I. Q.C. REP.

Calvin Arnold



**DP12-001 REV 0 Bombardier Certificate of Compliance
TW Metals District Procedure**

Revision: 0

Revision Date: 04-03-00

Superseding: Initial

Page: 1 of 1

CERTIFICATE OF COMPLIANCE**FRAUD AND FALSIFICATION STATEMENT**

The recording of false, fictitious, or fraudulent statements or entries on this document may be punished as a felony under federal statutes including federal law. Title 18 chapter 47.

CERTIFICATE OF COMPLIANCE

This certificate of compliance certifies that the material supplied on the purchase order number below complies in all respects with the material description and procurement specifications.

MERCURY FREE STATEMENT

We certify that mercury, radium, or alpha bearing instruments and / or equipment which might cause contamination have not been used in the manufacture, fabrication, assembly or testing of any material supplied by TW Metals Inc. Switches, glass thermometers, standard cell and other items containing the above elements may be used, but they will be located so as not to constitute a contamination hazard.

CUSTOMER NAME: GFI, IncPURCHASE ORDER No. 0079177ITEM No. 0001SHIPPER INVOICE No. 70455618MATERIAL: 2024-T3SPECIFICATION: 00A250/4MANUFACTURING MILL: AlcoaSIZE: .0630HEAT / LOT No. 452242PART No. AS063484424QUANTITY: 85.480 #TEST DEPARTMENT CLERK: Janice Clark**AUTHORITY**

Joe Schab

Director of Quality Assurance

This document is maintained as a Controlled Document only in the TW Metals computer system. Once printed, this document immediately becomes Uncontrolled and is subject to change at any time and without notice.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Arthur P. Young

Kenton P. Young
Quality Assurance Manager

PITTSBURGH, PA DAVENPORT WORKS

Ship From: RIVERDALE, IA.

| | | | | |
|----------------------------|-----------------|-------------|---------------|----------------|
| 1195227 | 0 | Ship From: | | RIVERDALE, IA. |
| Ship Date | B.L. No. | Invoice No. | Alcoa No. | Item |
| 2010-12-27 | 5519243 | 00000 | 1000238678-1 | Page 1 |
| P.O. No./Govt Contract No. | Customer | Alcoa Item | | DS-38678-01-1 |
| M49240110 Ln#: 001 | TW METALS-EXTON | | G041015405R09 | |

Item Description
0.063 IN TK (+.0030 -.0030) X 48.0 IN W (+.125 -.125) X 144.0 IN LN (+.15625 -.15625) CAT X 05313 (N) A/T 2024-T3 FLAT SHEET MILL FINISH. AMS-QQ-A-250/4
REV A IS 2010 EXC MRK AMS4037 REV N IS 2008
EXC MRK ASTM B209 REV 07 ((MARKED)) KRAFT PAPER
INTERLEAVED MAX
GROSS SKID WGT: 4750 LB QUAN TOL +/-20 %
CQR D126153 REV 36 CUST REQ 10-12-27 *** W/E 11-01-01 ***

| Num | Package Ticket | Lot | Weight | Quantity | UOM | Inspector Clock Numbers |
|-----|----------------|--------|--------|----------|-----|-------------------------|
| 1 | 261761 | 452242 | 3890 | 91 | PC | 27714 46940 |
| 2 | 261764 | 452242 | 1002 | 23 | PC | 27714 46940 |
| 3 | 261781 | 452242 | 3928 | 91 | PC | 27714 46940 |
| | | | 8820 | 205 | | |

PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ- A-250/4 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/4E, AMENDM ENT 2.
PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/4E AMENDMENT 2 ALSO MEETS THE REQUIREMENTS OF AMS -QQ-A-250/4.

CQR: D126153.36 -Specification Limits

| Temp | Dir | UTS | TYS | EL4D |
|------|--------------|------|------|------|
| T3 | Long Transv. | KSI | KSI | PCT |
| | Max | | | |
| | Min | 63.0 | 42.0 | 15 |

| | SI | FE | CU | MN | MG | CR | ZN | TI | Other Each | Other Total | Aluminum |
|-----|------|------|-----|------|-----|------|------|------|------------|-------------|----------|
| Max | 0.50 | 0.50 | 4.9 | 0.9 | 1.8 | 0.10 | 0.25 | 0.15 | 0.05 | 0.15 | |
| Min | | | 3.8 | 0.30 | 1.2 | | | | | | |

Alloy 2024
Lot: 452242

- Mechanical, Physical, Metallography, Quantometer Results

REMAIN

| | | | | | |
|------|--------------|------|------|-----|------|
| Temp | Dir | No-> | UTS | TYS | EL4D |
| T3 | Long Transv. | Test | KSI | KSI | PCT |
| | | 6 | 66.1 | 45 | 19 |

TW METALS
TEST
DEC 29 2010
ACCEPTED BY

CERTIFIED INSPECTION REPORT

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Per *[Signature]*
 Malcolm Murphy
 Director of Manufacturing Davenport Works

[Signature]
 Karlon P. Young
 Quality Assurance Manager

Alcoa Inc.

PITTSBURGH, PA DAVENPORT WORKS

Ship From: RIVERDALE, IA.

| | | | | |
|----------------------------|---------------|-------------------------------|----------------|---------------|
| 1195727 Ship Date | 0 B.L. No. | Invoice No. | Alcoa No. Item | Page 2 |
| 2010-12-27 | 5519243 | 00000 | 1000238678-1 | DS-38678-01-1 |
| P.O. No./Govt Contract No. | | Customer | Alcoa Item | |
| M49240110 Ln#: 001 | | TW METALS-EXTON G041015405R09 | | |

Lot: 452242

- Mechanical, Physical, Metallography, Quantometer Results (cont.) -----

| | | |
|------|------|------|
| 66.3 | 45 | 17.9 |
| 65.9 | 45.1 | 18.3 |
| 65.7 | 44.9 | 17.9 |
| 65.8 | 44.9 | 18.4 |
| 66.2 | 44.7 | 19.3 |

Cast Number
 H2549021

Chemical - OES SI FE CU MN MG CR ZN TI
 Actuals
 0.06 0.17 4.7 0.62 1.5 0.00 0.07 0.03

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

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